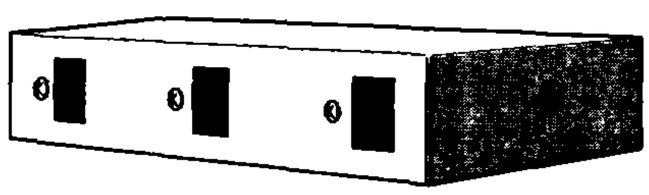
PIONEER®
The Art of Entertainment

Service Manual



ORDER NO.
CRT1866

MULTIPLE INSTALLATION ADAPTOR

CD-P33 E

SPECIFICATIONS

General

Power source ..... DC14.4V(10.8V—15.1V allowable)
Grounding system ..... Negative type
Dimensions ..... 162(W) × 30 (H) × 80 (D) mm
Weight 370g

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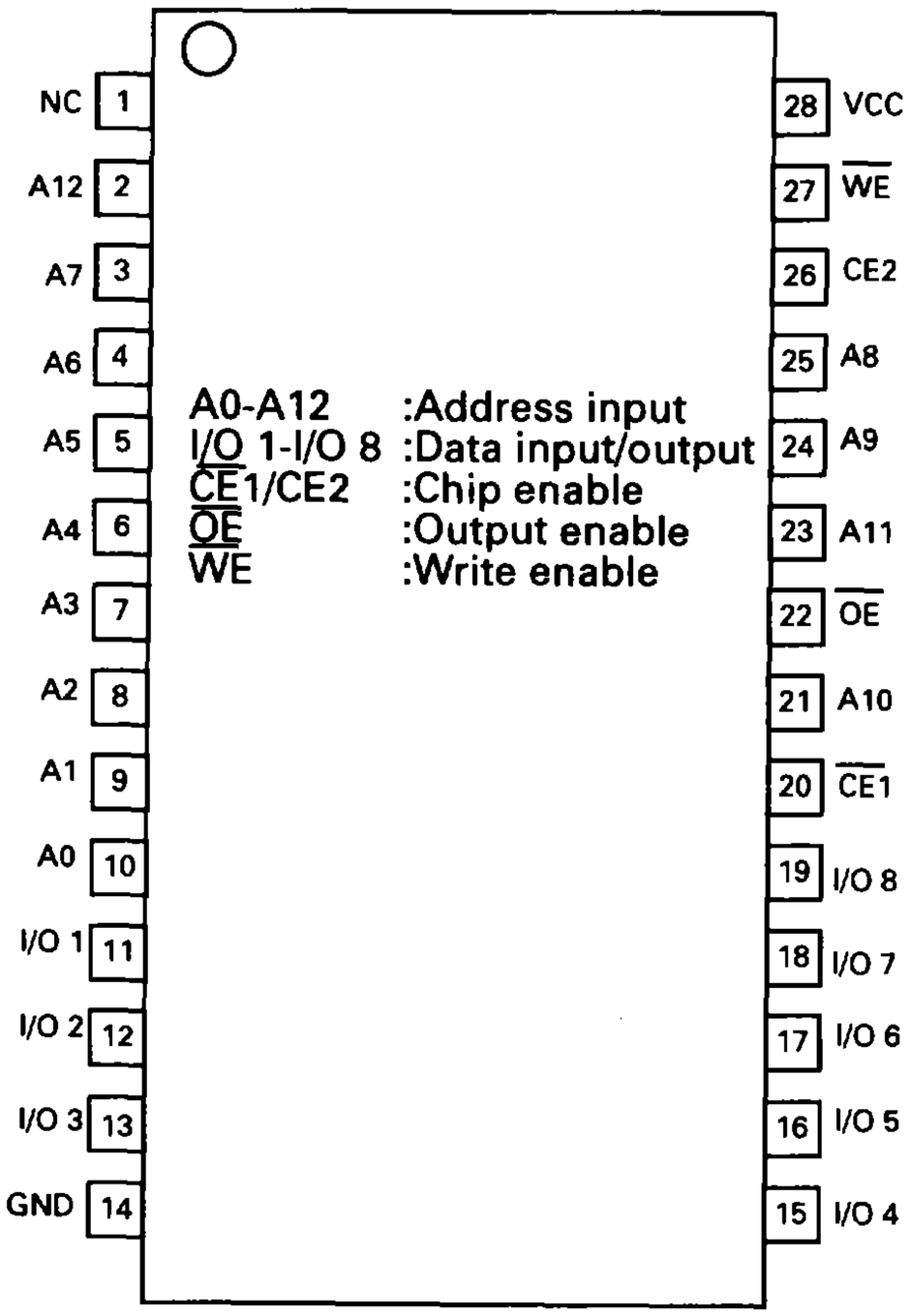
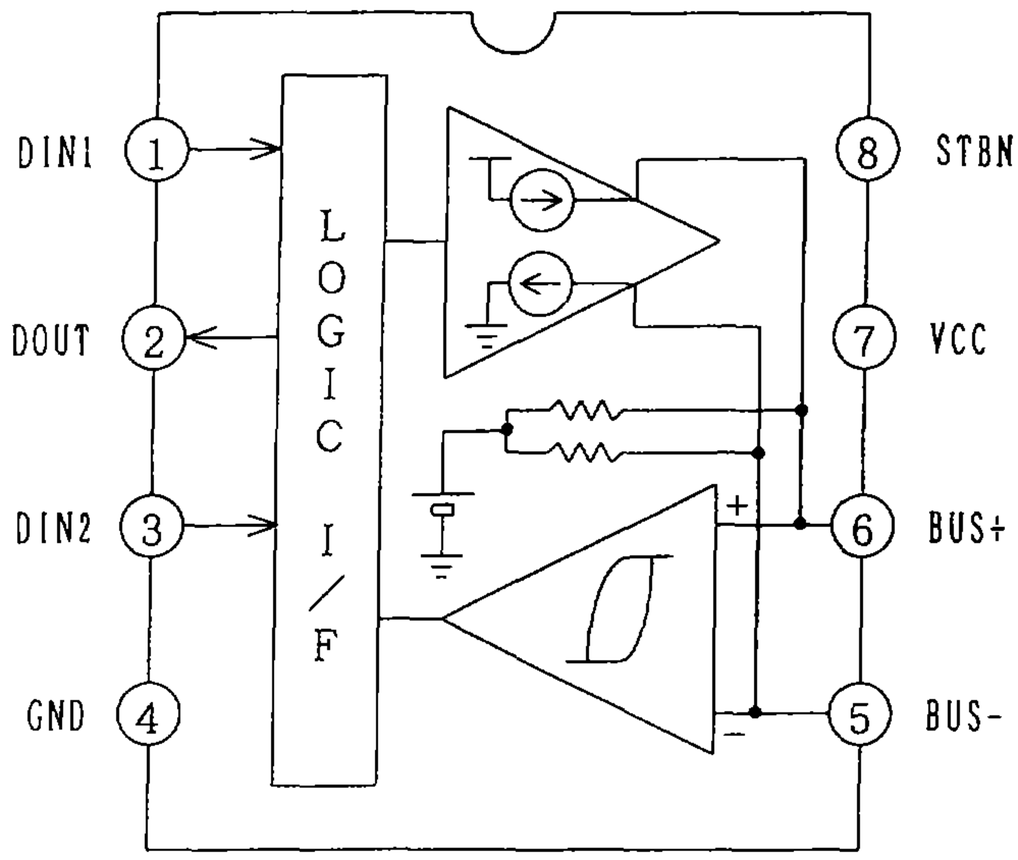
1. IC INFORMATION

*LH5168HN-10L



CA0008AM



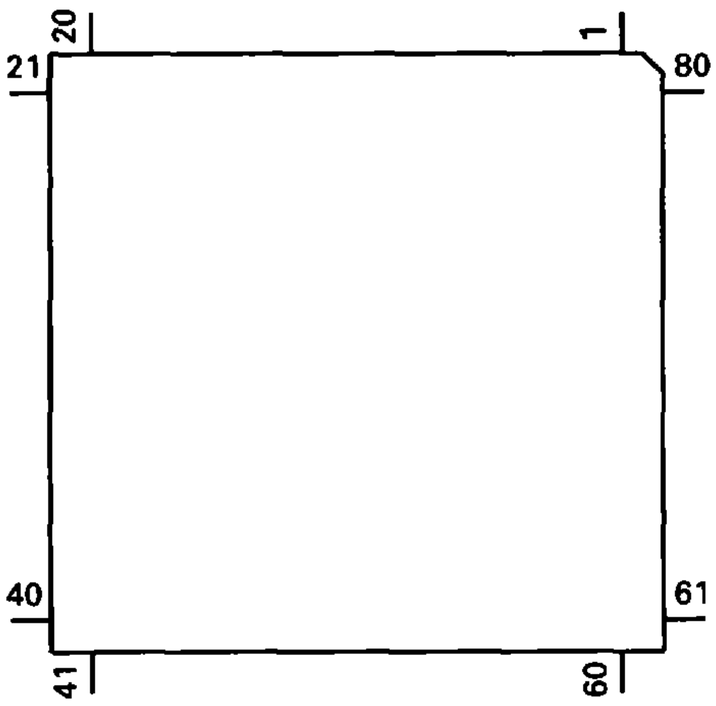
IC's marked by are MOS type.*
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

● Pin Functions (PD5365A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	NC			Open
2	NC			Open
3	CSI	I		IP-BUS data input
4	CSO	O	C	IP-BUS data output
5	APPW	O	C	IP-BUS driver power supply control output
6–13	NC			Open
14	$\overline{\text{ASENS}}$	I		ACC power sense input
15	$\overline{\text{BSENS}}$	I		Back up power sense input
16	MUTE	O	C	Mute control output
17	NC			Open
18	NC			Open
19	TCK	I		Test program clock
20	TSO	O	C	Test program data output
21	TSI	I		Test program data input
22	NC			Open
23	NC			Open
24	GND			GND
25	$\overline{\text{RESET}}$	I		Reset input
26	POWER	O	C	+5V control
27	NC			Open
28	XIN	I		Crystal oscillating element connection pin
29	XOUT	O		Crystal oscillating element connection pin
30	VSS			GND
31-38	D7-0	I/O	C	External RAM data line
39	WE	O	C	External RAM write enable
40	PROT	O	C	External RAM output enable
41	CS	O	C	External RAM chip select
42-54	A12-0	O	C	External RAM address line
55–69	NC			Open
70	$\overline{\text{TESTIN}}$	I		Unit check test input
71	VCC			5V
72	VREF	I		A/D converter reference voltage input
73	AVSS			A/D GND
74–80	NC			Open

Format	Meaning
C	C MOS

*PD5365A



2. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○J,RS1/○○S○○○J

Chip Capacitor (except for CQS.....)

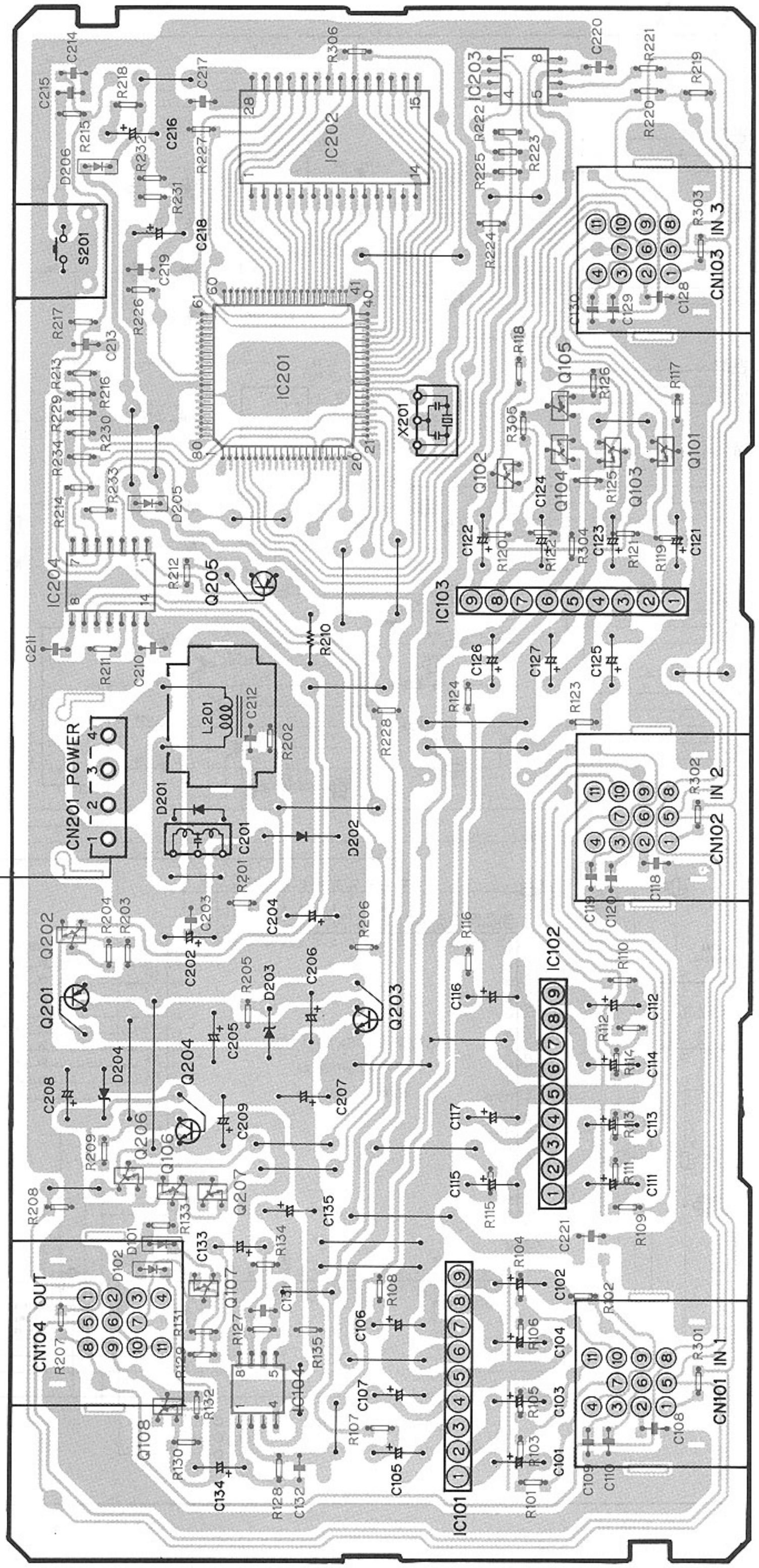
CKS....., CCS....., CSZS.....

=====Circuit Symbol & No.	Part Name=====	Part No.
Unit Number : CZX3176		
Unit Name : Main Unit		
MISCELLANEOUS		
IC 101 102 103		TA2050S
IC 104		UPC4570G
IC 201		PD5365A
IC 202		LH5168HN-10L
IC 203		CA0008AM
IC 204		PAJ002A
Q 101 102 103 104		DTD114TK
Q 105		DTA144TK
Q 106		DTA144EK
Q 107 108		DTC363TK
Q 201		2SB1243
Q 202 207		DTC144EK
Q 203 204		2SD1858
Q 205		2SB1329
Q 206		2SC2412K
D 101 102		1SS355
D 201 202		ERA15-02
D 203 204		HZS9L(B2)
D 205 206		1SS356
L 201	Choke 1.4mH	CTH1129
X 201	Resonator	CZS2050
S 201	Switch(Reset)	CZS2032
RESISTORS		
R 101 102 109 110 117 118		RS1/10S181J
R 103 104 111 112 119 120 129 130		RS1/10S223J
R 105 106 113 114 121 122 126 212 214 215		RS1/10S102J
R 107 108 115 116 123 124		RS1/10S362J
R 125		RS1/10S562J
R 127 128		RS1/10S392J
R 131 132		RS1/10S821J
R 133 134 135 204 233 234		RS1/10S222J
R 201		RS1/10S224J
R 202 206 216 217 229 230		RS1/10S104J
R 203 211 226 228 232		RS1/10S103J
R 205 209		RS1/10S332J
R 207 208 213 224 225 227		RS1/10S473J
R 210		RD1/4PU3R9J
R 218 220 221		RS1/10S101J
R 219		RS1/10S752J
R 222 223		RS1/10S102J
R 301 302 303 304 305 306		RS1/10S0R0J
CAPACITORS		
C 101 102 103 104 111 112 113 114 121 122		CEAS010M50
C 105 106 115 116 125 126 133 134		CEAS100M16
C 107 117 127 218		CEAS220M16
C 108 109 110 118 119 120 128 129 130 210		CKSQYF104Z25
C 123 124		CEAS010M50
C 131 132		CCSQCH271J50
C 135 209		CEAS101M10
C 202	1000μF/16V	CCH1003
C 203		CCSQCH102J50
C 204	2200μF/16V	CCH1001
C 205		CEAS331M16
C 206 208		CEAS470M16
C 207		CEAS471M10
C 211 213		CKSQYB103K50
C 212		CKSQYF223Z50
C 214 215 217 219 220 221		CKSQYF104Z25
C 216		CEAS331M6R3
C 201	EMI Filter	CCG1006

3. CONNECTION DIAGRAM

MAIN UNIT

IC. Q				
IC104				
Q108	IC101	Q107	IC202	IC203
Q106		Q204	Q201	
Q207	Q206	IC102	Q203	Q202
IC204		Q104		
Q205		Q103	IC201	
IC103		Q102	Q101	Q105



NOTE:

The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

Fig.1

4. SCHEMATIC CIRCUIT DIAGRAM

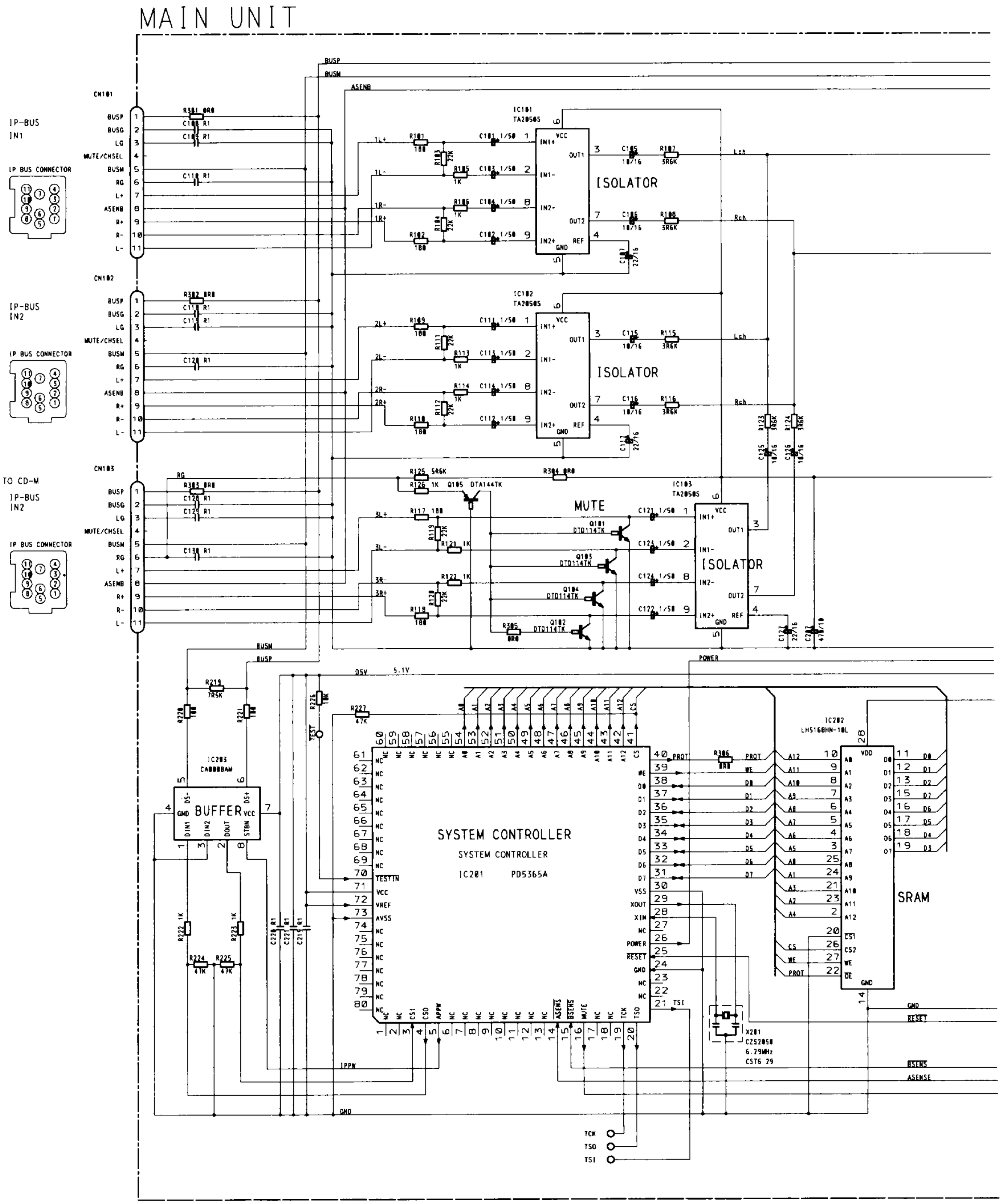
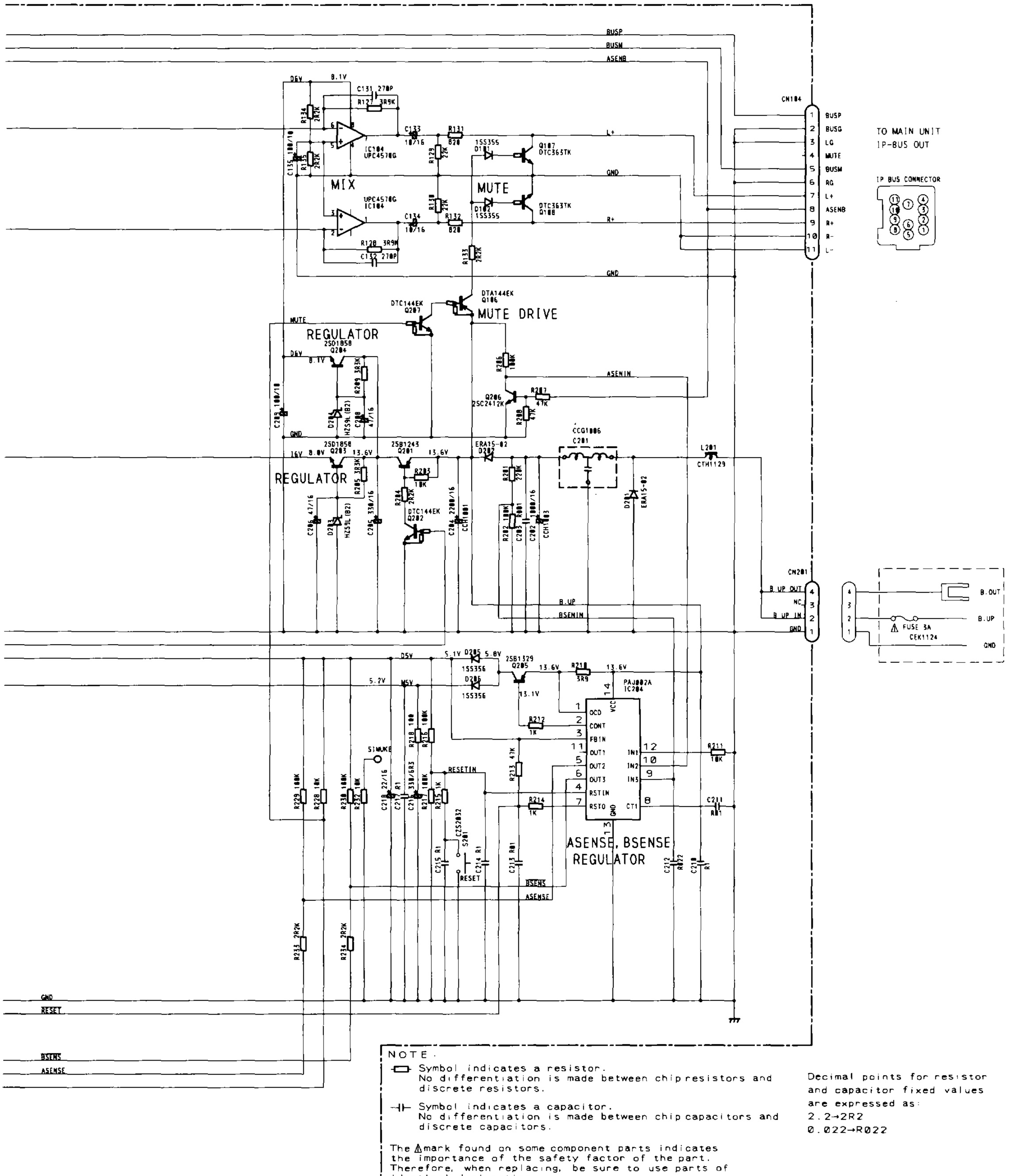


Fig.2



NOTE :

- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

Fig.3

5. EXPLODED VIEW AND PARTS LIST

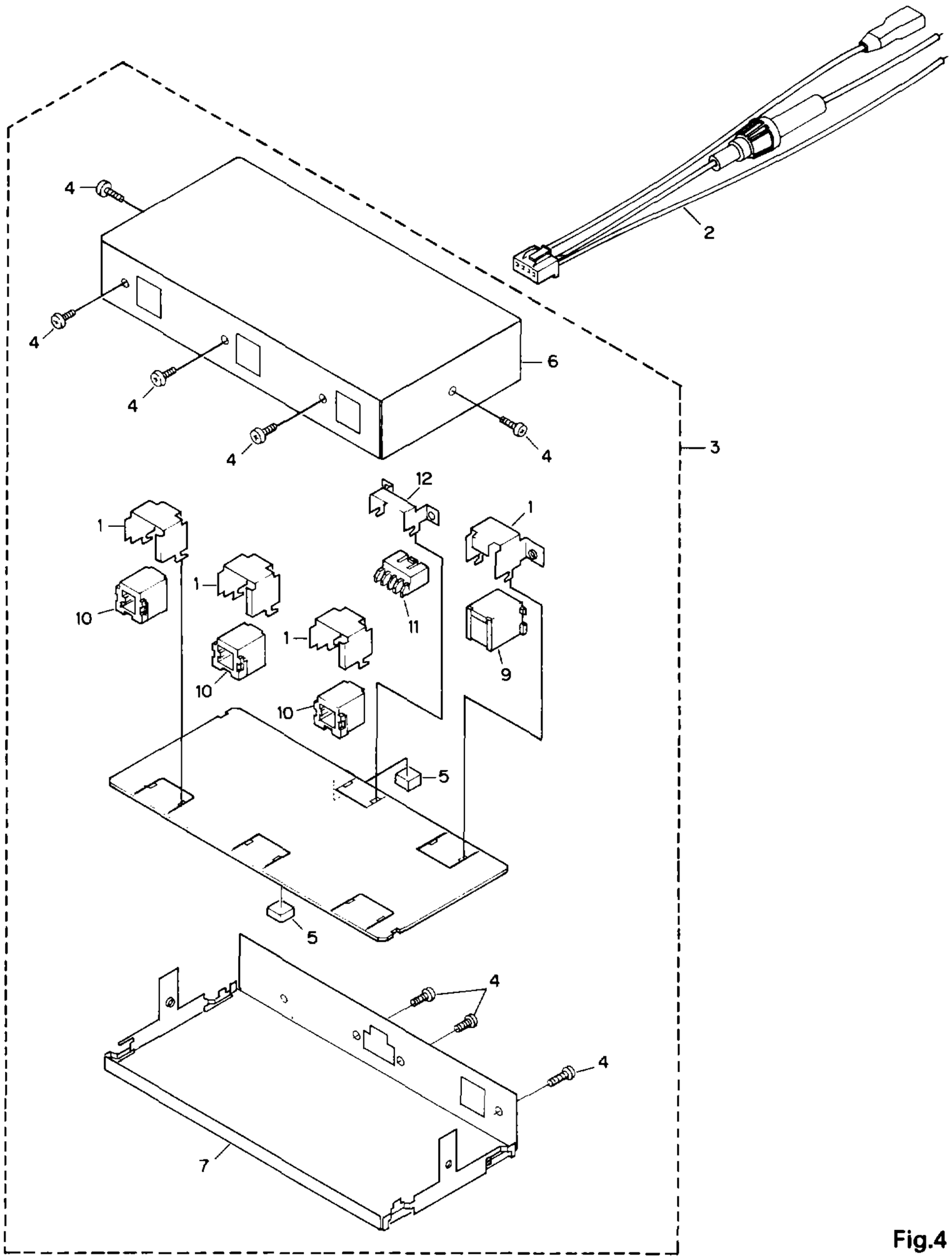


Fig.4

NOTE:

● Parts marked by " * "are generally unavailable because they are not in our Master Spare Parts List.

● **Parts List**

Mark	No.	Description	Part No.
	1	Bracket	CZN6234
	2	Connector Assy	CZD3274
	3	Main Unit	CZX3176
	4	Screw	BSZ30P060FMC
*	5	Spacer	CNM2798
	6	Case	CZN6374
	7	Chassis	CZN6375
	8	•••••	
	9	Connector(CN104)	CKS2485
	10	Connector(CN101-103)	CKS2486
	11	Plug(CN201)	CZK2040
	12	Bracket	CZN6159

6. PACKING METHOD

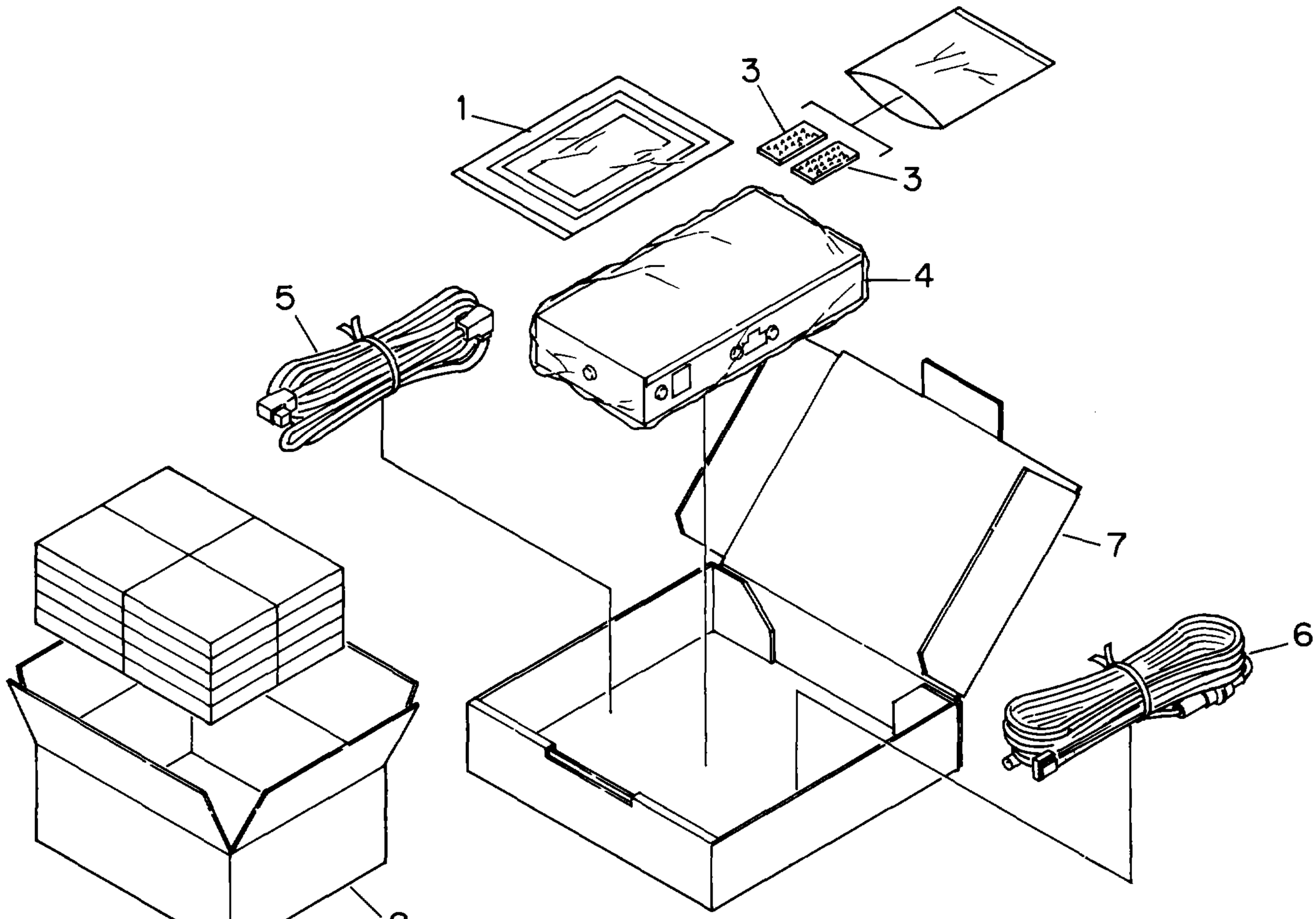


Fig.5

● Parts List

Mark	No.	Description	Part No.
	1-1	Polyethylene Bag	E36-618
	1-2	Owner's Manual	CZR3161
*	1-3	Warranty Card	CRP1141
	2	Contain Box	CZH6080
	3	Fastener	CNM-667
*	4	Polyethylene Bag	CEG-185
*	5	Cord	CDE4115
	6	Connector Assy	CZD3274
	7	Carton	CZH6079

● Owner's Manual

Part No.	Language
CZR3161	English, Spanish, German, French, Italian